

Title (en)

CHANNEL ENCODING WITH TWO TABLES CONTAINING TWO SUB-SYSTEMS OF A Z SYSTEM

Title (de)

KANALCODIERUNG MIT ZWEI TABELLEN, DIE ZWEI SUBSYSTEME EINES Z-SYSTEMS ENTHALTEN

Title (fr)

CODAGE DE CANAL AVEC DEUX TABLES CONTENANT DEUX SOUS-SYSTEMES D'UN Z-SYSTEME

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2006075218A2] A channel encoding method of calculating, using a programmable processor, a code identical with a code obtained with a hardware channel encoder. The method comprises: - a first step (112, 120; 222) of reading the result of a first sub-system of parallel XOR operations between shifted bits in a first pre-computed lookup table at a memory address determined from the value of the inputted bits, the first pre-computed lookup table storing any possible result of the first sub-system at respective memory addresses, and - at least a step (116, 124; 226) of carrying out an XOR operation between the read result and the result of a second sub-system of parallel XOR operations using an XOR instruction of the programmable processor.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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